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original document : P:W0465W1099PWSPECIFICATION.DOC  
and revised document: P:W0465W1099PWREVISED SPECIFICATION.DOC

CompareRite found 200 change(s) in the text

Deletions appear as Overstrike text

Additions appear as Bold-Underline text

**UNITED STATES PATENT APPLICATION**

**OF**

**Jong Seok KIM et al**

**FOR**

**WASHING MACHINE**

[0001] This application claims the benefit of Korean Application(s) No. 10-2002-0074964 filed on November 28, 2002, which is/are hereby incorporated by reference.

## BACKGROUND OF THE INVENTION

### Field of the Invention

[0002] The present invention relates to a washing machine, and more particularly, to a washing machine having a means for preventing a lid frame having a lid from being incorrectly assembled to a detergent box.

### Discussion of the Related Art

[0003] Generally, water and detergent are held in a tub of a drum type washing machine and a laundry is put in a drum inside the tub. The drum is then rotated to perform washing, rinsing, and dewatering.

[0004] The general drum type washing machine consists of a tub having an open front side to hold water and detergent, a drum rotatably provided in the tub to hold laundry, a motor rotating the drum, a cabinet holding the tub and the motor inside, and a detergent box in the cabinet to provide the detergent to the tub.

[0005] A user has difficulty in putting an appropriate amount of detergent in the drum directly. Moreover, if the detergent is directly put in the drum, color of the laundry may be changeable. Hence, the detergent storing assembly is separately installed in an upper part of the cabinet to allow the detergent to flow in the tub together with the supplied water.

[0006] Referring to FIG. 1, the ~~The~~ detergent storing assembly consists of a detergent box 18 holding a detergent to provide to a tub in washing, a lid frame 22 fixed to an upper rim of the detergent box 18 to have an opening at ~~a~~ an entrance for inputting the detergent, and a lid 24 hinge-coupled to the lid frame 22 to open/close a topside of the detergent box 18.

[0007] The detergent box 18 is installed at a top plate 13, on which a control panel 13a for controlling a washing machine is installed, forming a topside of a cabinet of the washing machine and has a plurality of detergent storing parts 18a, 18b, ~~and 18c~~ to separately store detergent powder, fiber softener, and bleaching agent.

[0008] Specifically, the detergent box 18 is installed in a loading hole 13b formed at the

top plate. For this, the detergent box has hooks ~~18d and 18f~~ formed at front and rear ends. ~~And~~, Also, hook holes ~~13c and 13d~~ are formed on an inner wall of the loading holes ~~13b~~ to correspond to the hooks.

[0009] The lid frame 22 connected to the lid 24 is fixed to the above-constructed detergent box.

[0010] The lid frame 22 is assembled to the detergent box 18 in a the following manner. First of all, fitting protrusions 19 protruding upward from both upper sides of the front and rear ends of the detergent box are fitted to coupling protrusions 23 protruding downward from a bottom of the lid frame 22, respectively. ~~And~~ Also, the lid frame 22 is then fixed to the detergent box 18 using screws S.

[0011] The lid frame 22 assembled to the detergent box 18 is loaded on the rim of the loading hole ~~13b~~ at the top plate.

[0012] However, in the above-constructed detergent storing assembly of the drum type washing machine, a plurality of the fitting protrusions 19 formed at the upper front and rear ends of the detergent box are formed alike, as well as a plurality of the coupling protrusions 23 formed at the bottom of the lid frame are formed alike. Hence, the lid frame 22 may be turned by 180° to be incorrectly assembled to the detergent box.

[0013] To overcome such a problem, development of a washing machine having a structure enabling to prevent the incorrect assembly between the lid frame and the detergent box is needed.

#### SUMMARY OF THE INVENTION

[0014] Accordingly, the present invention is directed to a detergent storing assembly and washing machine using the same that substantially obviates one or more of the problems due to limitations and disadvantages of the related art.

[0015] An object of the present invention, which has been devised to solve the foregoing problem, lies in providing a detergent storing assembly and washing machine using the same, by which a lid part and a detergent box constructing the detergent storing assembly are correctly assembled to each other.

[0016] Additional features and advantages of the invention will be set forth in the description which follows, and in part will be apparent to those having ordinary skill in the art upon examination of the following or may be learned from a practice of the invention. The objectives and other advantages of the invention will be realized and attained by the subject matter particularly pointed out in the specification and

claims hereof as well as in the appended drawings.

**[0017]** To achieve these objects and other advantages in accordance with the present invention, as embodied and broadly described herein, there is provided a washing machine including a tub having an open front side to hold water and detergent, a drum rotatably installed in the tub to hold laundry, a motor rotating the drum, a cabinet having the tub and the motor inside, and a detergent storing assembly at the cabinet to provide the detergent to detergent to the tub, the detergent storing assembly including a detergent box having an open topside to store the detergent and to provide the detergent to the tub for washing, a lid part fixed to the topside of the detergent box to open/close, and an incorrect-assembling preventing means for leading the lid part to a correct position for a reciprocal assembling of the lid part and the detergent box.

**[0018]** The incorrect-assembling preventing means includes at least one guide protrusion protruding from a bottom of the lid part to interrupt the reciprocal assembling in case that the lid part is incorrectly disposed over the detergent box and at least one guide groove formed at a portion of the detergent box corresponding to the guide protrusion to have the at least one guide protrusion inserted therein.

**[0019]** Moreover, the incorrect-assembling preventing means may include at least one guide protrusion protruding from the topside of the detergent box to interrupt the reciprocal assembling in case that the lid part is incorrectly disposed over the detergent box and at least one guide groove formed at a bottom of the lid part corresponding to the guide protrusion to have the at least one guide protrusion inserted therein.

**[0020]** The lid part includes a lid frame fixed to the detergent box and having an opening at a center to put the detergent in the detergent box and a revolvable lid installed at one side of the lid frame to open/close the topside of the detergent box.

**[0021]** The lid frame is fixed to the detergent box by at least one screw coupled from a topside of the lid frame.

**[0022]** The lid frame includes coupling protrusions protruding from a bottom toward the detergent box to have cavities in an axial direction, respectively and wherein the detergent box comprises insertion protrusions protruding from a rim of the topside of the detergent box to be inserted in the cavities of the coupling protrusions and having screw threads inside to be coupled to the screws, respectively.

**[0023]** The lid frame includes a rectangular frame having a rectangular opening at a central part.

**[0024]** The coupling protrusions are formed at bottoms of a pair of long or short sides of

the lid frame.

[0025] In this case, the incorrect-assembling preventing means includes guide grooves formed at inner walls of the cavities of the coupling protrusions at a pair of the long or short sides in different directions, respectively to interrupt the reciprocal assembling in case that the lid part is incorrectly disposed over the detergent box and guide protrusions protruding from outsides of the insertion protrusions in directions corresponding to the guide grooves, respectively.

[0026] Therefore, the incorrect-assembling preventing means enables to assemble the lid part to the detergent box correctly.

[0027] It is to be understood that both the foregoing explanation and the following detailed description of the present invention are exemplary and illustrative and are intended to provide further explanation of the invention as claimed.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0028] The accompanying drawings, which are included to provide a further understanding of the invention and are incorporated in and constitute a part of this application, illustrate embodiment(s) of the invention and together with the description serve to explain the principle of the invention.

In the drawings:

[0029] FIG. 1 ~~is a perspective view of a disassembled detergent storing assembly provided to a cabinet of a general washing machine;~~

~~[0030]~~ FIG. 2 is a perspective view of a washing machine according to the present invention;

~~[0031]~~ 0030 FIG. 3 2 is a cross-sectional view of a washing machine according to the present invention;

~~[0032]~~ 0031 FIG. 4 3 is a perspective view of a detergent storing assembly of a washing machine according to the present invention; and

~~[0033]~~ 0032 FIG. 5 4 is a perspective view of a detergent box installed at a cabinet of a washing machine according to the present invention.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT(S)

~~[0034]~~ 0033 Reference will now be made in detail to the preferred embodiment(s) of the present

invention, examples of which are illustrated in the accompanying drawings. Throughout the drawings, like elements are indicated using the same or similar reference designations where possible.

~~[0035]~~ 0034 FIG. 2 1 is a perspective view of a washing machine according to the present invention, FIG. 3 2 is a cross-sectional view of a washing machine according to the present invention, FIG. 4 3 is a perspective view of a detergent storing assembly of a washing machine according to the present invention, and FIG. 5 4 is a perspective view of a detergent box installed at a cabinet of a washing machine according to the present invention.

~~[0036]~~ 0035 Referring to FIG. 2 1, a washing machine includes a cabinet ~~100~~ 2 forming an exterior, an outer tub ~~300~~ 6 provided inside the cabinet ~~100~~ 2 to hold water and detergent, an inner tub ~~400~~ 4 rotatably installed inside the outer tub ~~300~~ 2 to hold laundry, and a motor ~~500~~ 10 provided in rear of the outer tub ~~300~~ 6 to rotate the drum ~~400~~ 4.

~~[0037]~~ 0036 A plurality of lifters ~~410~~ 8 are installed on an inner circumference of the inner tub ~~400~~ 4 to lift the laundry to a predetermined height when the drum ~~400~~ 4 rotates.

~~[0038]~~ 0037 The inner tub ~~400~~ 4 holds the laundry, water, and detergent and constructs a washing tub together with the outer tub ~~300~~ 6.

~~[0039]~~ 0038 The cabinet ~~100~~ 2 includes a cabinet body ~~110~~ 2a having an open top and an open front side, a cabinet cover ~~120~~ 2b coupled to the front side of the cabinet body ~~110~~ 2a and having an entrance h via which the laundry is put in the drum ~~400~~ 4, and a top plate ~~130~~ 2c coupled to the open top of the cabinet body ~~110~~. ~~And, 2a. Also,~~ a door ~~121~~ 12 is installed at the cabinet cover ~~120~~ 2b to open/close the entrance h.

~~[0040]~~ 0039 A control panel ~~131~~ 3, in which electronic parts for controlling an operation of the washing machine are installed, is installed on a rear part of the top plate ~~130~~ 2c.

~~[0041]~~ ~~And~~ 0040 Also, a detergent storing assembly ~~200~~ 20, which stores detergent inside so that water supplied via an inlet hose ~~140~~ 14 flows in the outer tub ~~300~~ 6 together with the detergent, is installed in a loading hole ~~132~~ 2h formed rectangular in one side of the top plate ~~130~~ 2c.

~~[0042]~~ 0041 Referring to FIG. 4 3 and FIG. 5 4, the detergent storing assembly ~~200~~ 20 includes a detergent box ~~210~~ 18 having an open topside and partitioned into a plurality of detergent storing parts ~~211a~~, ~~211b~~, 18a, 18b, and ~~211c~~ 18c to separately store detergent powder, fiber softener, and bleaching agent and a lid part ~~220~~ 20 coupled to the open topside of the detergent box ~~210~~ 18 to open/close.

~~[0043]~~ 0042 The lid part ~~220~~ 20 includes a rectangular lid frame ~~221~~ 22 having an opening ~~221~~

22a long enough to let the various detergents put in the detergent storing parts ~~211a, 211b,~~ 18a, 18b, and ~~211c~~ 18c and a lid ~~222~~ 24 hinge-coupled to the lid frame ~~221~~ 22.

[0044 0043] The detergent box ~~210~~ 18 is installed to be connected to the inlet hose ~~140~~ 14 and supplies the detergent to the outer tub ~~300~~ 6 via an inlet bellows ~~160~~ 16 installed over the outer tub ~~300~~ 6.

[0045 0044] Specifically, the detergent box ~~210~~ 18 has hooks ~~212a and 212b~~ 18d formed at front and rear ends to be assembled to the loading hole ~~132~~ 2h. And, hook holes ~~132a and 132b~~ 2d' are formed on an inner wall of a rim 2d of the loading hole ~~132~~ 2h to correspond to the hooks ~~212a and 212b,~~ 18d.

~~[0046]~~[0045] And, the lid frame ~~221~~ 22 is assembled to the topside of the detergent box ~~210~~ 18 by screws S.

[0047 0046] For this, the lid frame ~~221~~ 22 includes coupling protrusions ~~223a~~ 23a and ~~223b~~ 23b protruding from a bottom toward the detergent box ~~210~~ 18 to have cavities in an axial direction, respectively. And, the detergent box ~~210~~ 18 includes insertion protrusions ~~213a~~ 19a and ~~213b~~ 19b protruding from a top of a rim to be inserted in the cavities of the coupling protrusions ~~223a~~ 23a and ~~23b~~ and having screw threads inside to be coupled to the screws S, respectively.

[0048 0047] The detergent storing assembly according to the present invention further includes an incorrect-assembling preventing means ~~231~~ 19b and ~~232~~ 23b provided between the detergent box ~~210~~ 18 and the lid frame ~~221~~ 22 to enable the lid frame ~~221~~ 22 to be correctly coupled to the detergent box ~~210~~ 18.

[0049 0048] The incorrect-assembling preventing means includes guide grooves ~~231~~ 26b formed in different directions at inner walls of the cavities of the coupling protrusions, respectively and guide protrusions ~~232~~ 26a protruding from an outside of the insertion protrusions in directions corresponding to the guide grooves ~~231~~ 26b, respectively.

[0050 0049] In the present invention, the guide protrusions ~~232a and 232b~~ 26a protrude from outsides of a pair of the insertion protrusions ~~213b~~ 19b to confront each other, respectively, and the guide grooves ~~231a and 231b~~ 26b are grooves recessed at inner walls of a pair of the coupling protrusions ~~223b~~ 23b to have the guide protrusions ~~232a and 232b~~ 26a inserted therein, respectively when the lid frame ~~221~~ 22 is assembled to the detergent box ~~210~~ 18.

~~[0051]~~ [0050] The guide groove ~~231~~ 26b may be formed at one of a pair of the coupling protrusions ~~223b~~ 23b and the guide protrusion ~~232~~ 26a may be selectively formed at one of a pair of the insertion protrusions ~~213b~~ 19b as well.

[0052 0051] Of course, the incorrect-assembling preventing means 231 19b and 232 23b may include at least one guide protrusion protruding from the ~~lid~~ rib part, and more specifically, from a bottom of the lid frame 221 22 and at least one guide groove formed at a portion of the detergent box 210 18 corresponding to the guide protrusion to have the guide protrusion inserted therein.

[0053 0052] Moreover, the incorrect-assembling preventing means 231 19b and 232 23b may include at least one guide protrusion protruding from the topside of the detergent box 210 18 and at least one guide groove formed at a portion of the bottom of the lid part corresponding to the guide protrusion to have the guide protrusion inserted therein.

[0054 0053] Namely, if the lid frame 221 22 is incorrectly aligned over the detergent box 210 18 such that the front or rear end of the lid frame 221 22 is horizontally turned by 180°, the guide grooves 231a and 231b 26b are disposed over the front end insertion protrusions 213a 26a so that the lid frame 221 22 is unable to be assembled to the detergent box 210 18.

[0055 0054] An assembling process of the above-constructed detergent box 210 18 and lid part 220 20 is explained as follows.

[0056 0055] First of all, the detergent box 210 18 is coupled to the inside of the loading hole 132 2h by the hooks 212a and 212b 18d and the hook holes 132a and 132b 2d.

[0057 0056] And, the lid frame 221 22 connected to the lid 222 24 is coupled to the topside of the detergent box 210 18 by the screws S to enable to open/close the topside of the detergent box 210 18.

[0058 0057] In this case, the insertion protrusions 213a 19a and 213b 19b formed at the topside front and rear ends of the detergent box 210 18 are inserted in the coupling protrusions 223a 23a and 223b 23b formed at the bottom front and rear ends of the lid frame 221 22, and the guide protrusion 232 26a is inserted in the guide grove 231 26b. Once the screws S are coupled to the coupling holes (~~not shown in the drawing~~) 22h of the lid frame 221 22, the detergent box 210 18 and the lid frame 221 22 are fixed to each other.

[0059 0058] The washing machine having the above-constructed detergent storing assembly according to the present invention has the following advantages or effects.

[0060 0059] First of all, when the lid frame is mounted on the detergent box to be assembled thereto, the incorrect-assembling preventing means prevents the lid frame from being incorrectly assembled to the detergent box. Therefore, the present invention enhances assembling efficiency, thereby reducing assembling time and enhancing productivity.

**[0061 0060]** It will be apparent to those skilled in the art that various modifications and variations can be made in the present invention without departing from the spirit or scope of the invention. Thus, it is intended that the present invention cover such modifications and variations, provided they come within the scope of the appended claims and their equivalents.

ABSTRACT OF THE DISCLOSURE

Disclosed is a detergent storing assembly and washing machine using the same, by which a lid part and a detergent box constructing the detergent storing assembly are correctly assembled to each other. The present invention includes a tub having an open front  
5 side to hold water and detergent, a drum rotatably installed in the tub to hold laundry, a motor rotating the drum, a cabinet having the tub and the motor inside, and a detergent storing assembly at the cabinet to provide the detergent to detergent to the tub. And, the detergent storing assembly includes a detergent box having an open topside to store the detergent and to provide the detergent to the tub for washing, a lid part fixed to the topside of the detergent  
10 box to open/close, and an incorrect-assembling preventing means for leading the lid part to a correct position for a reciprocal assembling of the lid part and the detergent box.

## ----- REVISION LIST -----

The bracketed numbers refer to the Page and Paragraph for the start of the paragraph in both the old and the new documents.

5 [2:9 2:9] Changed "Referring to FIG. 1, the " to "The "  
 [2:9 2:9] Changed "box 18 holding" to "box holding"  
 [2:9 2:9] Changed "frame 22 fixed" to "frame fixed"  
 10 [2:9 2:9] Changed "box 18 to" to "box to"  
 [2:9 2:9] Changed "a enter " to "an entrance "  
 [2:9 2:9] Changed "lid 24 hinge-coupled" to "lid hinge-coupled"  
 [2:9 2:9] Changed "frame 22 to" to "frame to"  
 [2:9 2:9] Changed "box 18." to "box."  
 15 [2:10 2:10] Changed "box 18 is" to "box is"  
 [2:10 2:10] Changed "plate 13," to "plate,"  
 [2:10 2:10] Changed "panel 13a for" to "panel for"  
 [2:10 2:10] Changed "parts 18a, 18b, and 18c to" to "parts to"  
 [2:11 2:11] Changed "box 18 is" to "box is"  
 20 [2:11 2:11] Changed "hole 13b formed" to "hole formed"  
 [2:11 2:11] Changed "hooks 18d and 18f formed" to "hooks formed"  
 [2:11 2:11] Changed "And, " to "Also, "  
 [2:11 2:11] Changed "holes 13c and 13d are" to "holes are"  
 [2:11 2:11] Changed "holes 13b to" to "holes to"  
 25 [2:12 2:12] Changed "frame 22 connected" to "frame connected"  
 [2:12 2:12] Changed "lid 24 is" to "lid is"  
 [2:12 2:13] Changed "lid frame ... assembled" to "lid frame is assembled"  
 [2:13 2:13] Changed "box 18 in a" to "box in the"  
 [2:13 2:13] Changed "protrusions 19 protruding" to "protrusions protruding"  
 30 [2:13 2:13] Changed "protrusions 23 protruding" to "protrusions protruding"  
 [2:13 2:13] Changed "frame 22," to "frame,"  
 [2:13 2:13] Changed "And" to "Also"  
 [2:13 2:13] Changed "lid frame 22 is then" to "lid frame is then"  
 [2:13 2:13] Changed "box 18 using screws S." to "box using screws."  
 35 [2:14 2:14] Changed "frame 22 assembled" to "frame assembled"  
 [2:14 2:14] Changed "box 18 is" to "box is"  
 [2:14 2:14] Changed "hole 13b at" to "hole at"  
 [2:15 2:15] Changed "protrusions 19 formed" to "protrusions formed"  
 [2:15 2:15] Changed "alike as" to "alike, as"  
 40 [2:15 2:15] Changed "protrusions 23 formed" to "protrusions formed"  
 [2:15 2:15] Changed "frame 22 may" to "frame may"  
 [2:34 2:33] Changed "1 is a perspective ... washing machine;" to "1"  
 [2:35 2:34] Changed "[0030] FIG. 2 is" to " is"  
 [2:36 2:35] Changed "0031" to "0030" "  
 45 [2:36 2:35] Changed "3 " to "2 "  
 [2:37 2:36] Changed "0032" to "0031" "  
 [2:37 2:36] Changed "4 " to "3 "  
 [2:38 2:37] Changed "0033" to "0032" "  
 [2:38 2:37] Changed "5 " to "4 "  
 50 [2:40 2:39] Changed "0034" to "0033"  
 [2:41 2:40] Changed "0035" to "0034" "  
 [2:41 2:40] Changed "2 " to "1 "  
 [2:41 2:40] Changed "3 " to "2 "  
 [2:41 2:40] Changed "4 " to "3 "  
 55 [2:41 2:40] Changed "5 " to "4 "  
 [2:42 2:41] Changed "0036" to "0035"

	[2:42 2:41] Changed	"2" to "1"
	[2:42 2:41] Changed	"cabinet 100 forming" to "cabinet 2 forming"
	[2:42 2:41] Changed	"tub 300 provided" to "tub 6 provided"
	[2:42 2:41] Changed	"cabinet 100 to" to "cabinet 2 to"
5	[2:42 2:41] Changed	"400 " to "4 "
	[2:42 2:41] Changed	"outer tub 300 to hold" to "outer tub 2 to hold"
	[2:42 2:41] Changed	"500 " to "10 "
	[2:42 2:41] Changed	"outer tub 300 to rotate" to "outer tub 6 to rotate"
	[2:42 2:41] Changed	"drum 400." to "drum 4."
10	[2:43 2:42] Changed	"0037" to "0036"
	[2:43 2:42] Changed	"410 " to "8 "
	[2:43 2:42] Changed	"tub 400 to" to "tub 4 to"
	[2:43 2:42] Changed	"drum 400 rotates." to "drum 4 rotates."
	[2:44 2:43] Changed	"0038" to "0037"
15	[2:44 2:43] Changed	"400 " to "4 "
	[2:44 2:43] Changed	"300" to "6"
	[2:45 2:44] Changed	"0039] " to "0038] "
	[2:45 2:44] Changed	"100 " to "2 "
	[2:45 2:44] Changed	"body 110 having" to "body 2a having"
20	[2:45 2:44] Changed	"cover 120 coupled" to "cover 2b coupled"
	[2:45 2:44] Changed	"body 110 and" to "body 2a and"
	[2:45 2:44] Changed	"400" to "4"
	[2:45 2:44] Changed	"130 " to "2c "
	[2:45 2:44] Changed	"110. And, " to "2a. Also, "
25	[2:45 2:44] Changed	"121 " to "12 "
	[2:45 2:44] Changed	"cover 120 to" to "cover 2b to"
	[2:46 2:45] Changed	"0040" to "0039"
	[2:46 2:45] Changed	"131" to "3"
	[2:46 2:45] Changed	"130" to "2c"
30	[2:47 2:46] Changed	"0041] And" to "0040] Also"
	[2:47 2:46] Changed	"200" to "20"
	[2:47 2:46] Changed	"140 " to "14 "
	[2:47 2:46] Changed	"300 " to "6 "
	[2:47 2:46] Changed	"132 " to "2h "
35	[2:47 2:46] Changed	"130" to "2c"
	[2:48 2:47] Changed	"0042" to "0041"
	[2:48 2:47] Changed	"4 " to "3 "
	[2:48 2:47] Changed	"5" to "4"
	[2:48 2:47] Changed	"200 " to "20 "
40	[2:48 2:47] Changed	"box 210 having" to "box 18 having"
	[2:48 2:47] Changed	"211a, 211b, " to "18a, 18b, "
	[2:48 2:47] Changed	"211c " to "18c "
	[2:48 2:47] Changed	"220 " to "20 "
	[2:48 2:47] Changed	"box 210 to" to "box 18 to"
45	[2:49 2:48] Changed	"0043" to "0042"
	[2:49 2:48] Changed	"220 " to "20 "
	[2:49 2:48] Changed	"frame 221 having" to "frame 22 having"
	[2:49 2:48] Changed	"opening 221 long" to "opening 22a long"
	[2:49 2:48] Changed	"211a, 211b, " to "18a, 18b, "
50	[2:49 2:48] Changed	"211c " to "18c "
	[2:49 2:48] Changed	"222 " to "24 "
	[2:49 2:48] Changed	"frame 221." to "frame 22."
	[2:50 2:49] Changed	"0044" to "0043"
	[2:50 2:49] Changed	"210 " to "18 "
55	[2:50 2:49] Changed	"140 " to "14 "
	[2:50 2:49] Changed	"300 " to "6 "

	[2:50 2:49] Changed	"160 " to "16 "
	[2:50 2:49] Changed	"tub 300." to "tub 6."
	[2:51 2:50] Changed	"0045" to "0044"
	[2:51 2:50] Changed	"210 " to "18 "
5	[2:51 2:50] Changed	"212a and 212b " to "18d "
	[2:51 2:50] Changed	"hole 132." to "hole 2h."
	[2:51 2:50] Changed	"132a and 132b " to "2d' "
	[2:51 2:50] Changed	"rim of" to "rim 2d of"
	[2:51 2:50] Changed	"132 " to "2h "
10	[2:51 2:50] Changed	"212a and 212b." to "18d."
	[2:52 2:51] Changed	"[0046" to "[0045"
	[2:52 2:51] Changed	"221 " to "22 "
	[2:52 2:51] Changed	"210 " to "18 "
	[2:53 2:52] Changed	"0047" to "0046"
15	[2:53 2:52] Changed	"221 " to "22 "
	[2:53 2:52] Changed	"protrusions 223a and 223b" to "protrusions 23a and 23b"
	[2:53 2:52] Changed	"box 210 to" to "box 18 to"
	[2:53 2:52] Changed	"box 210 includes" to "box 18 includes"
	[2:53 2:52] Changed	"213a " to "19a "
20	[2:53 2:52] Changed	"213b " to "19b "
	[2:53 2:52] Changed	"coupling protrusions 223a and 23b" to "coupling protrusions 23a and 23b"
	[2:54 2:53] Changed	"0048" to "0047"
	[2:54 2:53] Changed	"231 " to "19b "
	[2:54 2:53] Changed	"232 " to "23b "
25	[2:54 2:53] Changed	"210 " to "18 "
	[2:54 2:53] Changed	"lid frame 221 to enable" to "lid frame 22 to enable"
	[2:54 2:53] Changed	"lid frame 221 to be" to "lid frame 22 to be"
	[2:54 2:53] Changed	"box 210." to "box 18."
	[2:55 2:54] Changed	"0049" to "0048"
30	[2:55 2:54] Changed	"231 " to "26b "
	[2:55 2:54] Changed	"232 " to "26a "
	[2:55 2:54] Changed	"grooves 231," to "grooves 26b,"
	[2:56 2:55] Changed	"0050" to "0049"
	[2:56 2:55] Changed	"protrusions ... 232b protrude" to "protrusions 26a protrude"
35	[2:56 2:55] Changed	"213b " to "19b "
	[2:56 2:55] Changed	"231a and 231b " to "26b "
	[2:56 2:55] Changed	"223b " to "23b "
	[2:56 2:55] Changed	"protrusions ... 232b inserted" to "protrusions 26a inserted"
	[2:56 2:55] Changed	"221 " to "22 "
40	[2:56 2:55] Changed	"210" to "18"
	[2:57 2:56] Changed	"0051" to "0050"
	[2:57 2:56] Changed	"231 " to "26b "
	[2:57 2:56] Changed	"223b " to "23b "
	[2:57 2:56] Changed	"232 " to "26a "
45	[2:57 2:56] Changed	"213b " to "19b "
	[2:58 2:57] Changed	"0052" to "0051"
	[2:58 2:57] Changed	"231 " to "19b "
	[2:58 2:57] Changed	"232 " to "23b "
	[2:58 2:57] Changed	"rid " to "rib "
50	[2:58 2:57] Changed	"221 " to "22 "
	[2:58 2:57] Changed	"210 " to "18 "
	[2:59 2:58] Changed	"0053" to "0052"
	[2:59 2:58] Changed	"231 " to "19b "
	[2:59 2:58] Changed	"232 " to "23b "
55	[2:59 2:58] Changed	"210 " to "18 "
	[2:60 2:59] Changed	"0054" to "0053"

	[2:60 2:59] Changed	"lid frame ... incorrectly" to "lid frame ... incorrectly"
	[2:60 2:59] Changed	"210 " to "18 "
	[2:60 2:59] Changed	"lid frame ... horizontally" to "lid frame ... horizontally"
	[2:60 2:59] Changed	"231a and 231b " to "26b "
5	[2:60 2:59] Changed	"213a " to "26a "
	[2:60 2:59] Changed	"lid frame 221 is unable" to "lid frame 22 is unable"
	[2:60 2:59] Changed	"box 210." to "box 18."
	[2:61 2:60] Changed	"0055" to "0054"
	[2:61 2:60] Changed	"210 " to "18 "
10	[2:61 2:60] Changed	"220 " to "20 "
	[2:62 2:61] Changed	"0056" to "0055"
	[2:62 2:61] Changed	"210 " to "18 "
	[2:62 2:61] Changed	"132 " to "2h "
	[2:62 2:61] Changed	"212a and 212b " to "18d "
15	[2:62 2:61] Changed	"132a and 132b." to "2d'."
	[2:63 2:62] Changed	"[0057" to "[0056"
	[2:63 2:62] Changed	"221 " to "22 "
	[2:63 2:62] Changed	"222 " to "24 "
	[2:63 2:62] Changed	"210 " to "18 "
20	[2:63 2:62] Changed	"box 210." to "box 18."
	[2:64 2:63] Changed	"0058" to "0057"
	[2:64 2:63] Changed	"213a " to "19a "
	[2:64 2:63] Changed	"213b " to "19b "
	[2:64 2:63] Changed	"box 210 are" to "box 18 are"
25	[2:64 2:63] Changed	"223a " to "23a "
	[2:64 2:63] Changed	"223b " to "23b "
	[2:64 2:63] Chgd All	"221" to "22"
	[2:64 2:63] Changed	"232 " to "26a "
	[2:64 2:63] Changed	"231" to "26b"
30	[2:64 2:63] Changed	"(not shown ... drawing) " to "22h "
	[2:64 2:63] Changed	"box 210 and" to "box 18 and"
	[2:65 2:64] Changed	"0059" to "0058"
	[2:66 2:65] Changed	"0060" to "0059"
	[2:67 2:66] Changed	"0061" to "0060"
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